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(54) Title: ENGINEERED ANTIGEN-PRESENTING CELLS EXPRESSING AN ARRAY OF ANTIGENS AND USES THEREOF

### (57) Abstract

The present invention provides a method for presentation of multiple disease associated antigens in antigen-presenting cells which can be used to generate a prophylactic or therapeutic immune response against the disease with which the antigens are associated. The method employs differential screening of nucleic acid sequences expressed by target and non-target cells. By identifying nucleic acid sequences preferentially expressed in a target cell population and expressing the identified sequences in antigen-presenting cells, one can stimulate an immune response directed at a target cell population without being limited to single, previously identified antigens.